

# Syllabus

## Childhood And Development of Children

### Unit - 1

#### Perspectives In Development

- ☞ **Introduction to child development** : Concepts of growth, development and maturation, concept and introduction to various perspectives of development, humanistic psychology and development theory.
- ☞ **Enduring themes in the study of child development** : Development in the form of multi-dimensional and plural aspects, development as continuing through the life span, socio-cultural contexts influencing development.
- ☞ **Various methods for the study of child development** : Naturalistic observations, interviews, reflective and specific anecdotes and narratives, Piaget's theory of child development.
- ☞ **Inclusive study of children** : Concept and nations.

### Unit - 2

#### Physical Motor Development

- ☞ Physical - motor development, growth and maturity.
- ☞ Role of guardians and teachers in making available the opportunities for physical-motor development, like games etc.

### Unit - 3

#### Language, Social And Emotional Development

##### Speaking and Language development

- ☞ Pre-linguistic communication.
- ☞ Stages of language development.

- ☞ Sources of language development : Home, school and media.
- ☞ **Used of language** : To listen to the children talking during conversations.
- ☞ Socio-cultural differences in conversations Pronunciation.
- ☞ Different methods of conversations and telling stories.
- ☞ **Social development** : Role of family, class fellows and school in social development.
- ☞ Role of competition, discipline, awards and punishment in social development.
- ☞ Fundamental understanding of emotions : anger, fearr, worries, joys etc.
- ☞ Development of emotions, functions of emotions, Bowlby's Attachment theory.

### Unit - 4

## Context of Socialization

- ☞ Concept and processes of socialization.
- ☞ Social and cultural differences in socialization.
- ☞ Family and adult-child relationship, parenting, childrearing produces, separation from parents, children in creches and orphanages.
- ☞ **Schooling** : School culture, relationship with teachers, and teacher expectations and his role.
- ☞ **Relationships with peers** : Friendships, relationship with friends,

### Unit - 5

## Childhood

- ☞ Child labour, child exploitation, poverty, globalization, problem of absence from schools, childhood in context of adult culture.
- ☞ Similarities and dissimilarities in concept of child hood and especially how childhood evolves in Indian context.

□

# Syllabus

## Education in Contemporary Indian Society

### Unit - 1

#### State, Politics and Indian Education

- ☞ State and Education.
- ☞ Political nature of education.
- ☞ New Economic Reforms and their impact on Education.
- ☞ Public Education Vs Private Education.
- ☞ Privatisation of Public Education.
- ☞ Education of Marginalised and Socially Disadvantaged.
- ☞ Equality of education opportunities in India.

### Unit - 2

#### Perspectives on Society and Schooling

- ☞ Social Structure and Education with special reference to Class, Caste, Religion, Family, and Polity in India.
- ☞ Culture and Education.
- ☞ Modernization, Social Change and Education.

### Unit - 3

#### Constitution of India and Education

- ☞ Constitutional vision of independent India then and now
- ☞ Constitution and Education, Concurrent status of education, constitutional, Provisions of education.
- ☞ Children with special reference to their contexts (class, caste, tribe, religion, language and gender) and Policies related to education, Acts and Provisions
- ☞ Different educational policies of elementary education and their implementation & effect
- ☞ Equality and Justice in the Indian Constitution, differential school system and the idea of common neighbourhood school
- ☞ Right to Education Act 2009 and MP act 2011

## Unit - 4

### Contemporary Issues and Concerns in ducation

- ☞ Democracy and Education.
- ☞ Liberalization and Education.
- ☞ Globalization and Education.
- ☞ Agricultural, dalit and feminist movements and their impact on education.
- ☞ Democratization of equality, Disability and quality education.

## Unit - 5

### Teacher as Social Transformer

- ☞ Teacher as an organic intellectual agent of social change.
- ☞ Roles and responsibilities of teacher.
- ☞ Teacher's ethics.
- ☞ Teacher and Community development.
- ☞ Teacher as Social Transformer. □

### Session work

Assignment and project work in terms of educational challenges in contemporary Indian society - Total three tasks are given. Write one task from each section.

#### Section 'A' Assignment

- Make a list of recommendations made for elementary education in the National Education Policy 1986.
- Changes in school system before and after National Education Policy 1986 in the field of elementary education study the comparative situation.
- Make a list of various schemes operated under Sarva Shiksha Abhiyan of one plan write the basic goals, objectives and implementation process.
- The provisions of the Right to Education of Children Act 2009 for weaker sections and disadvantaged groups and write their effects on educational development.
- After the implementation of the right to education, an article is prepared on the current changes in your area please do.
- Make a flowchart explaining the departmental structure of your district.
- Rationalize the role of elementary education in economic development.
- Constitutional provisions in its school; Standards and norms under section 19 of TTM 2009 review the corresponding school resources.
- Make a list of various educational institutions operating for minorities / disadvantaged children in their area.

# Syllabus

## Early Childhood Care and Education

### Unit - 1

#### Definition, Nature and Significance of Early Childhood Care and Education

- ⇒ Definition and purpose of the overall curriculum of care and education in early childhood.
- ⇒ Important in early childhood care and education (ECCE) in lifelong learning and development knowing the importance of duration.
- ⇒ Rational for extending the period of care and education in early childhood to 8 years of age to facilitate learning.
- ⇒ The challenges of early learning in schools and the concept of pre-school preparation.

### Unit - 2

#### Principles and Methods Developmentally Appropriate ECCE Curriculum

- ⇒ How children learn: Distinct characteristics up to early, middle and later childhood.
- ⇒ Importance of sports and activity based learning for early years learning.
- ⇒ Areas and activities for the overall development of children.
- ⇒ Literacy and numeracy in early years.

### Unit - 3

#### Planning and Management of ECCE Curriculum

- ⇒ Principles of structured and contextual curriculum planning.
- ⇒ Long and short term objectives and planning.
- ⇒ Project method and thematic Approach .
- ⇒ Developmentally appropriate and inclusive classroom management..

## Unit - 4

### Assessing Children's Progress

- ⇒ Standards of learning and development in early childhood.
- ⇒ Observing and recording the progress of children.
- ⇒ Report of children's progress.
- ⇒ Ensuring connectivity between home and school.



### Session work

- (1) Write any two local sports / activities for the early childhood years (3-8 years) and Submit a report on the development that takes place.
- (2) Comparative study of height and weight of children by visiting any Anganwadi center presents health analysis.
- (3) Class 1 of the children reached from Anganwadi in and the education of children coming directly to school to do comparative study.
- (4) Motivational activities for infants.



# Syllabus

## Understanding Language and Early Language Development

### Unit - 1

#### What Is Language

- ☞ Introduction
- ☞ Language, thought and society
- ☞ Difference between animal and human communication
- ☞ Language features, language functions
- ☞ Language structure
- ☞ Language and its inherent power

### Unit - 2

#### Linguistic Diversity and Multilingualism

- ☞ Constitutional provisions regarding language
- ☞ Nature of multilingualism and its impact in the classroom
- ☞ Linguistic diversity : in relation to India and Madhya Pradesh
- ☞ Multilingualism : as a classroom resource and strategy

### Unit - 3

#### Language Acquisition and Learning

- ☞ Introduction
- ☞ Language and children
- ☞ Acquisition and learning
- ☞ First language acquisition
- ☞ Learning second language and foreign languages

### Unit - 4

#### Language Classroom

- ☞ Introduction
- ☞ Objectives of language teaching
- ☞ Current methods of language teaching and their analysis
- ☞ Role of teacher
- ☞ Role of errors

## Unit - 5

### What is Linguistic Skill

- ☞ Introduction
- ☞ Listening - Listening means
- ☞ Speaking - Meaning to speak
- ☞ Development of listening and speaking skills - dialogues, short plays, story telling, poetry telling.

## Unit - 6

### Development of Linguistic Skills

- ☞ Introduction
- ☞ Literacy and Reading Means
- ☞ Reading descriptive text - Understanding the text, expanding the article, reading the material
- ☞ Linking your experience, incorporating new experiences into the article, other than textbook
- ☞ Read content
- ☞ Strategies for reading - Before, during and after reading strategies
- ☞ Understanding of various language tools, making children good readers.
- ☞ Writing a skill?
- ☞ Relationship between reading and writing
- ☞ Developing writing skills, getting basic writing done
- ☞ Literary examples related to different genres of literature should be given so that it is easy to teach.

## Unit - 7

### Literature

- ☞ Types of textbooks - introduction to narrative and descriptive literature, reading them, understanding of the text liaise with
- ☞ Objectives for teaching various genres of literature
- ☞ Read and understand the various genres of literature
- ☞ To use literature throughout the course.
- ☞ Methods of teaching prose and poetry - grammar-creative methods

## Unit - 8

### Understanding of the textbook and its pedagogy

- ☞ Guidelines for the creation of language textbooks.
- ☞ Content and methods of its teaching.
- ☞ Contents given in the textbook, methods of teaching, outline of units, practice work.
- ☞ Analysis of nature and its nuances.
- ☞ Academic criteria and learning methods.
- ☞ Teaching aids in language class.

## Unit - 9

# Planning and Evaluation of Classroom Teaching

- ☞ Preparation of classroom teaching preparing annual and period-wise action plan for language classes.
- ☞ Difference in Assessment Continuous and Comprehensive Evaluation.
- ☞ Formative assessment in the language classroom (assessment of reading and writing).
- ☞ Summative Assessment in language class (skill based).

### Session work

**Work out each of the following sections A and B**

#### Section - A

- ☞ A Lesson Plan of Activity Based Learning (ABL) / Active Learning Methodology (ALM).
- ☞ Prepare a separate section of prose and verse.
- ☞ Prepare an effective lesson plan for developing linguistic skills with supporting materials.
- ☞ Create a linguistic sports activity based on the direct observation of the language laboratory.
- ☞ Editing by selecting one of the problemal issues and formulating a work of practical research.
- ☞ Keeping in view the nature of the language and according to the blueprint for oral evaluation, any one prepare the ideal class paper.

#### Section - B

- ☞ Make a list of the genres of literature and the names of authors available in the university library. write a review of a book of your choice.
- ☞ Prepare an action plan for effective use of the library in your school.
- ☞ Submit any local folklore in local dialect and Hindi language.
- ☞ Any places of natural, historical, cultural importance, fairs, festivals or localities around you write an article on one of the freedom-fighter's biographies.
- ☞ Compile popular local vernaculars and idioms.



# Syllabus

## Pedagogy and ICT Integration Across the Curriculum

### Unit - 1

#### Information Communication Technical Basis in School Education

- ☞ Computer in education : Hardware-data storage, data backup  
Software : System Software (windows, lynex, android), Application  
Software (word, power point, MS excel)
- ☞ Internet and Intranet : Searching, Selecting, Downloading,  
Uploading.
- ☞ Document Creation and Presentation : Text Document Creation,  
Spread Seat Construction, Power Point Construction and  
Presentation (with slides, charts, cartoons, drawings)
- ☞ Free Educational Resources (OER) : Meanings, Objectives and  
Importance National Repository of OER OER for schools : HBCSE,  
TIFR, MKCL and A joint effort of I CONCENT such as school  
duty, open source education foundations, national center for open  
source and education and flosed, aarg.

### Unit - 2

#### Information and communication technology based teaching learning process

- ☞ Brain based learning (BBL).
- ☞ E-learning and blended learning.
- ☞ L 3 Group Compositions, Cooperative and Collaborative Learning.
- ☞ Flipped and smart classroom, interactive whiteboard.
- ☞ Alternative methods of information enabled learning : Package (kai/  
CAL package, multimedia package, E-content, MOOC), Social  
Media (mobile blog, wiki, whatsapp, chat etc.)
- ☞ Virtual lab-meaning and role.
- ☞ Information and communication technology based learning resource  
generation (by edukaple).

## Unit - 3

### Information and communication technique based assessment / evaluation

- ☞ Information and communication technology supported alternative methods of assessment / evaluation – e-portfolio, computer based question bank etc.
- ☞ Online rubric generator for the construction of assessment rubrics such as RUBISTAR, IRUBRIC.
- ☞ Information and Communication Technology Based Assessment / Evaluation Tool (Secretive Ping-Pong, Class, Badges, Class cover Traits).
- ☞ Information and communication technology based test manufacturing tools (HOTPOTATO SURBEMONKEY GOOGLE FORM)

## Unit - 4

### Theme based website and software and usage

- ☞ Physics : Based.
- ☞ Physion, brightstorm.com, nasa world wind.
- ☞ Chemistry based : Periodic table classification, kalsiam.
- ☞ Maths based-geogebra, maths is fun, sagemath, khan academy, ORG, tux maths.
- ☞ Social science based : celastia, g copris, world wind telescope, G compris.
- ☞ Language based : bright storm.com
- ☞ Other (knowledge, mind genius, Disney interactive, the learning company, thinking cloacks.
- ☞ Learning Through workshops.
- ☞ Give opportunities to learn by doing.

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# Syllabus

## Proficiency in English

### Unit - 1

#### Status of English in India

- ☞ English as a global language
- ☞ English as a Language of Science & Technology.
- ☞ English as a library language.

### Unit - 2

#### Listening & Speaking

- ☞ Phonetics and phonology : (i) How sounds are produced, transmitted and received; stress, rhythm and intonation in pronunciation.

### Unit - 3

#### Reading

- ☞ Importance of reading
- ☞ Reading strategies : word attack, inference, extrapolation

### Unit - 4

#### Writing

- ☞ Mechanics of writing-strokes and curves, capital and small letters, cursive and print script, punctuation.
- ☞ Different forms of writing- formal and informal letters, messages, notices, posters, advertisements, note making, report writing, diary entry, resume (bio data/CV) writing.
- ☞ Controlled and guided writing with verbal and visual inputs
- ☞ Free and creative writing.

### Unit - 5

#### Vocabulary & Grammar in context

- ☞ Synonyms, antonyms, homophones.
- ☞ Word formation- prefix, suffix, compounding
- ☞ Parts of speech
- ☞ Tense, modals
- ☞ Articles, determiners
- ☞ Types of sentences (assertive, interrogative, imperative, exclamatory)

# Syllabus

## Yoga Education

### Unit - I

#### Introduction of Yoga

- ⇒ Meaning and definition of Yoga, area of yoga, aim of yoga, types of yoga, ( Devotion, Karma yoga, Knowledge Yoga, Hath Yoga, mantrayog, layyog, kundalini yog), difference between yoga and work out, Yoga supplement exercise, susham yougik kriyan, Importance of Yoga for the teacher and Student.
- ⇒ Historical Perspective of yoga - condition of yoga before patanali (Civilization of sindhu ghati, Vedic period, Upanishads period, Ramayana period, Mahabharata period) Sankhya and Yoga, Jainism and Yoga, Buddhism and Yoga

### Unit - II

#### Development of Yoga During Patanjali and After Patanjali

- ⇒ The actualization of yoga by Maharishi Patanjali, introduction of Astanga yoga-rule, Aasan, Pranayam, Pratyahar, Dharna, Dhyān, Samadhi, Contribution of Maharishi Patanjali in the field of yoga.
- ⇒ Development of yoga after patanjali-normal introduction of texts-yogsutra, gherandsahinta, hathayog pradeepika.
- ⇒ Renaissance of yoga in Modern Age.
- ⇒ Contribution of different Yoga Institutions in field of yoga as : Kevalaydham Lonavala, Vihar Yog School in Munger, Swami Vivekanand Sangthan Bangalore, Divya Jeevan Sangh Shivanand Asharam Rishikesh, Morari Desai National Yoga Anusandhan New Delhi, Central Yoga and Natural Medicine Anusandhan Parishad New Delhi, Patanjali Yogpeeth Haridwar.

### Unit - III

#### Important System of Yoga and Meditation

- ⇒ Meaning of meditation, types and advantages, Useful and obstructive elements in meditation. Panchkosh concept, Bhagvat Gita and Yoga,

Dhyan Yog in lesson of Geeta description of shlok number 10 to 36)  
Jaap meditation, Ajpadyan, Meditation system based on Patanjali.

- ⇒ Meaning and aim of Preksha meditation , meaning and aim of Vipassana Meditation.

#### Unit - IV

### Science of Body Formation and Effect of Yoga On Mental Health

- ⇒ Effect of Yoga on Physical Systems : Circulatory System, Skeleton System, Digestion system, Respiratory System, Nerve System, Excretory System.
- ⇒ Introduction of Internal glands and effect of yoga on internal glands.
- ⇒ Mental health, Anxiety, Depression, Role of Yoga to decrease tension. □

#### Session work

**Yoga practice and activities will be done any 3 :**

- (1) To visit the Yoga Center and write a report based on the activities organized in the center.
- (2) Interviewing one yoga practitioner and a report on the benefits experienced by him To write.
- (3) To collect information related to yogasanas from official sources and write a report on it.
- (4) Display any five asanas in front of your support group and write a report on it.

#### Posture

- (A) **Meditative posture** : Sukhasana, Ardha Padmasana, Padmasana, Siddhasana, Siddha yoni asana, Bajrasana.
- (B) **Restful posture** : Yoganidra, Shavasana, Makarasana.
- (C) **Standing postures** : Tadasana, Padahastasana, Vriksasana, Trigonasana, Garunasana, Uttanasana, Ardhatichkrasan, Utkatasana, Padangushthasana, Virabhadrasana.
- (D) **Asanas performed by sitting** : Badconakasana, Vakrasana, Paschimottasana, Shashankasana, Gomukhasana-1 and 2, Veerasana, Marichyasana, Janushirasasana, Ustrasana, Yogamudra, Supt Bajrasana.

#### Pranayama

Nadi Shodhan Pranayama, Kapalbhati, Bhramari Pranayam, Sheetali Pranayam, Bhastrika Pranayama, Sheetkari Pranayama An' Ujjayi Pranayama. □

# हिन्दी भाषा शिक्षण

## इकाई - 1

### हिन्दी भाषा शिक्षण के उद्देश्य और कक्षा प्रतिक्रिया

- ⇒ हिन्दी भाषा शिक्षण के उद्देश्य।
- ⇒ माध्यम भाषा/ प्रथम भाषा के रूप में हिन्दी का स्वरूप।
- ⇒ हिन्दी भाषा का अधिग्रहण और उस संदर्भ में कक्षा की प्रतिक्रिया
- ⇒ शिक्षण की भूमिका

## इकाई - 2

### हिन्दी भाषा शिक्षण के कौशल

- ⇒ सुनना और इस कौशल से क्या आशय है।
- ⇒ हिन्दी भाषा की कक्षा में सुनना कौशल का विकास संबंधी गतिविधियाँ
- ⇒ बोलने के कौशल का आशय
- ⇒ हिन्दी भाषा कक्षा में बोलना कौशल के विकास के लिए गतिविधियाँ (गीत, कविता, संवाद, संभाषण, विडियो, सिनेमा)

## इकाई - 3

### भाषा शिक्षण के कौशल

- ⇒ पढ़ना कौशल से तात्पर्य
- ⇒ हिन्दी भाषा कक्षा में पढ़ने के कौशल से संबंधित गतिविधियाँ - विषयवस्तु का वाचन, वाचन पश्चात अपने अनुभव से जोड़ना-1 विभिन्न प्रकार की पठनीय सामग्री का वाचन कर उसका आनंद उठाना।
- ⇒ हिन्दी भाषा की कक्षा में पढ़ने के कौशल विकास के लिए रणनीति - पढ़ने के पूर्व और पढ़ने के बाद की गतिविधियाँ।
- ⇒ लेखन के कौशल से तात्पर्य
- ⇒ हिन्दी भाषा की कक्षा में लेखन कौशल के विकास के लिए गतिविधियाँ।

## इकाई - 4

### गद्य और पद्य शिक्षण

- ⇒ गद्य और पद्य शिक्षण के उद्देश्य
- ⇒ हिन्दी भाषा को कक्षा, लेख, व्यंग, निबंध आदि शिक्षण की पाठ योजना बनाना और कक्षा की प्रतिक्रिया।

## इकाई - 5

### व्यावहारिक व्याकरण

- ⇒ कक्षा के स्तरानुरूप व्याकरण तत्व का रचनात्मक पद्धति से शिक्षण
- ⇒ व्याकरण के खेल/गतिविधि

## इकाई - 6

### मूल्यांकन

- ⇒ हिन्दी भाषा कक्षा का रचनात्मक मूल्यांकन
- ⇒ हिन्दी भाषा की कक्षा में योगात्मक मूल्यांकन
- ⇒ आकलन/मूल्यांकन का रख-रखाव, टीप लिखना, फीडबैक

## Syllabus

# Pedagogy of English Language

### Unit - 1

#### Teaching of English at the elementary level

- ☞ Issues of learning English in a multilingual' multicultural society.
- ☞ Issues of teaching English as second language at (a) Early primary-class I and II, (b) Primary- class III, IV and V.
- ☞ Learner socio-Cultural background and need learning English

### Unit - 2

#### Understanding of Textbooks and Approaches to the Teaching of English

- ☞ The cognitive and constructive approach-nature and role of learner, catering to different types of learners, age, of learning, learning style, teaching large classes, socio-cultural pace factors and socio-psychological factors
- ☞ Behaviouristic approach- direct method, grammar- translation method, structural, approval, communicative approach, state specific methods- Activity Based Learning (ABL) and Active learning Methodology (ALM)
- ☞ The internal assessment will be done on the following two sub-sections.

### Unit - 3

#### Classroom transaction process

- ☞ Stating learning outcomes and achieving them
- ☞ Pair work, group work
- ☞ Use of story telling, role play, drama, songs as pedagogical tools.
- ☞ Pre-reading, reading and Post-reading, objectives and processes.
- ☞ Questioning to promote thinking.
- ☞ Dealing with textual exercises.

The internal assessment will be done on the following section-

**A. Preparing teaching plan (five) using constructive approach and including at least three of the following activities:**

- |  |                 |                     |
|--|-----------------|---------------------|
| (i) pair work                          | (ii) group work | (iii) story telling |
| (iv) role-play                         | (v) drama       | (vi) songs/rhymes   |
| (vii) questioning to promote thinking. |                 |                     |

**B. Peer analysis of the lesson plan**

**C. Suggested ICT activities**

- ☞ Searching and downloading lesson plan based on constructivist approach.
- ☞ Edit, moderate and contextualize at least one lesson plan.
- ☞ Present lesson plan digitally (on LCD projection or on smart phone).

**Unit - 4**

**Curriculum, text book & Material development**

- ☞ Preparing material for young learners.
- ☞ Using local resources.
- ☞ Using open resource (OER's) text, video, audio
- ☞ Analyzing and receiving teaching- learning materials and OER's.
- ☞ Academic standards, learning indicators and learning outcomes.
- ☞ Need and process of curriculum revision
- ☞ Text analysis of school textbooks for English

**Unit - 5**

**Planning & Assessment**

- ☞ Planning for teaching
- ☞ Year plan, unit plan and period plan.
- ☞ Teachers' reflection on their own teaching learning practices
- ☞ Continuous and comprehensive evaluation (CCE)
- ☞ Monitoring of learning and giving feed back

**Assignment**

- ☞ Reading Passages and analyzing the distribution of linguistic elements.
- ☞ Making generalization on syntactic and morphological properties.
- ☞ Checking the generalizations and editing them individually and also through collaboration, feedback.
- ☞ Critical reading of specific areas of grammar as discussed in a few popular grammar books and reaching at conclusions.
- ☞ Put the internal assessment activities at one place and let the learners do any 5



# Syllabus

## Pedagogy of Mathematics Education

### Unit - 1

#### Introduction to Mathematics

- ⇒ What is Mathematics and where it is Found in Life.
- ⇒ Why we teach Mathematics
- ⇒ What is the Need and Importance of Mathematics in Daily life?
- ⇒ Aspects of Mathematics: Concept, Process, Symbol and Language
- ⇒ Mathematisation

### Unit - 2

#### Mathematics : Teaching Principles and Teaching Methods

- ⇒ Understanding the learners.
- ⇒ Understanding the learning processes.
- ⇒ Learning and teaching errors.
- ⇒ Methods of Mathematics learning and teaching - Induction & deduction, specialization and generalization, theories of Mathematics (Applying Piagets theory of cognitive.
- ⇒ Development in mathematics education).

### Unit - 3

#### Counting, Numbers and its Operations

- ⇒ Pre-number Concepts.
- ⇒ Understanding Numbers and Presentation of Numbers.
- ⇒ Digit and Number.
- ⇒ Counting and Place value
- ⇒ Concept of Fractions and its Presentation
- ⇒ Mathematical Operations of Numbers

### Unit - 4

#### Geometrical Shapes and Pattern

- ⇒ Types of Shapes - 2D & 3D
- ⇒ Understanding of Shapes - Definition, Need and Difference
- ⇒ Understanding of Different Shapes in Mathematics
- ⇒ Patterns – Definition, Need and Types
- ⇒ Understanding of Patterns in Numbers and Shapes

## Unit - 5

### Understanding of Textbooks and Pedagogy

- ⇒ Philosophy and guiding principles for the development of Maths textbooks.
- ⇒ Content, approaches and methods of teaching Mathematics – Interactive and participatory methods, teacher as facilitator.
- ⇒ Themes, structure of the unit, nature of exercises and its implications.
- ⇒ Academic standard and Academic standard
- ⇒ Learning resources for effective transaction of Mathematics curriculum.

## Unit - 6

### Classroom Planning and Assessment

- ⇒ Teaching Readiness : Planning of Teaching Mathematics, Year plan, Unit plan and Period plan
- ⇒ Evaluation of the plan
- ⇒ Assessment and Evaluation-definition, need and importance
- ⇒ Continuous and comprehensive evaluation (CCE)- evaluation for adhigam, evaluation of adhigam, Formative Assessment and tools, Summative Assessments, Weightage tables, Substitution and Reporting, Record and register.

### Session work

**Under the session work, the students will record the entire process and submit it along with the material. (any two)**

- (1) Creating Abacus and using it in classroom teaching.
- (2) Construction of GEO board and its use in classroom training.
- (3) Creating and teaching the model of number line.
- (4) Teaching mathematics from activities by molding paper.
- (5) Making fraction discs and using them in classroom teaching to understand decimals.
- (6) Prepare a model for the area of ??the path and verify it.
- (7) Prepare and validate the model of Pythagoras theorem.
- (8) Using a classroom building tool to evaluate a single concept of mathematics.
- (9) To identify the difficulties faced by the children and analyze and resolve the reasons.
- (10) Establishing a mathematical corner in the internship school.
- (11) Collecting various mathematical puzzles / games from your environment and creating your own puzzles/games.
- (12) Explanatory observation of mathematics class teaching (at least 5) of your fellow student do.
- (13) Preparation of learning lessons of children of different abilities.
- (14) Study of different types of measurement units used in daily life and mutual among them establish a relationship.

